| Index o | of Claims |
|---------|-----------|
|         |           |

| Application No.   | Applicant(s)    |  |
|-------------------|-----------------|--|
| 09/760,661        | PINTO, OSCAR P. |  |
| Examiner          | Art Unit        |  |
| Crystal J. Barnes | 2121            |  |

| <b>/</b> | Rejected | _ | (Through numeral)<br>Cancelled |
|----------|----------|---|--------------------------------|
| =        | Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Claim Date |          |                |                     |                    | Claim Date |           |               |              |   |       |          | CI  | Date     |          |              |          |              |               |          |   |        |            |            |                 |          |          |          |          |           |           |           |          |
|------------|----------|----------------|---------------------|--------------------|------------|-----------|---------------|--------------|---|-------|----------|-----|----------|----------|--------------|----------|--------------|---------------|----------|---|--------|------------|------------|-----------------|----------|----------|----------|----------|-----------|-----------|-----------|----------|
| Final      | Original | 9/10/04        |                     |                    |            |           |               |              |   |       | ri.      |     | Gigirlai |          |              |          |              |               |          |   |        | Final      | Original   |                 |          |          |          |          |           |           |           |          |
|            | 1        | 1              | $\vdash$            | $\dashv$           | +          | _         |               | +            | +                                       | -     | $\vdash$ | 5   | 1        | +        | _            |          | ╁            | H             | 十        | +   | -      |            | 101        |                 | 1        |          |          |          | $\exists$ | $\exists$ | $\exists$ |          |
|            | 2        | 0              |                     | 1                  | 7          | _         |               | 寸            |   |       |          | 5   |          |          |              |          |              |               |          | $\top$  | 7      |            | 102        |                 |          |          |          |          |           |           | П         |          |
|            | 3        | 1              |                     | -+                 | $\forall$  | 寸         | 7             | 十            | $\top$                                  |       | -        | 5   |          |          | T            | $\top$   | T            |               |          | $\top$  | 7      |            | 103        |                 |          | Ī        | T        | T        | $\neg$    |           | $\neg$    |          |
|            | 4        | √              |                     | 1                  | 7          | $\exists$ | 7             | $\neg$       | $\top$                                  | 7     |          | 5   |          |          |              | T        |              |               |          |   |        |            | 104        |                 |          |          |          | П        | $\Box$    |           |           |          |
| -          | 5        | 1              |                     | 7                  | 1          | 寸         | 寸             | $\neg$       | 1                                       | 7     |          | 5   | 5        | į.       | T            | T        | Τ            |               |          |   | 7      |            | 105        |                 |          |          |          |          |           |           |           |          |
|            | 6        | 1              |                     | T                  | 1          |           | T             | T            | $\top$                                  | 7     |          | 5   | 6        |          | T            | 1        |              |               |          |   |        |            | 106        |                 |          |          |          |          |           |           |           |          |
|            | 7        | 1              |                     |                    |            |           |               |              | T                                       |       |          | 5   | 7        |          |              |          |              |               |          |   |        |            | 107        |                 |          |          |          |          |           |           |           |          |
|            | 8        | 0              |                     |                    |            |           |               |              |   |       |          | 5   |          |          |              |          | <u> </u>     |               |          |   |        |            | 108        |                 |          |          |          | _        | _         | _         | _         |          |
|            | 9        | 0              |                     |                    |            |           |               |              |   | _     |          | 5   |          |          | $\perp$      | $\perp$  |              |               |          |   | _ :::: |            | 109        |                 | _        | _1       | _        | _        | $\dashv$  | 4         | _         | $\dashv$ |
|            | 10       | =              |                     |                    |            |           |               |              |   | _ ::: | -        | 6   | 0        |          |              |          |              |               |          |   | _      | L          | 110        |                 | $\Box$   | _        |          | _        | _         |           | _         |          |
|            | 11       | =              |                     |                    |            |           |               |              |   | _     | L        | 6   |          |          | 丄            | $\perp$  |              |               |          | $\perp$   | _      |            | 111        |                 |          |          |          | _        |           | $\dashv$  | _         |          |
|            | 12       | =              |                     | $\perp$            | 4          | _         | _             |              |   | 4     | _        |     | 2        | _        | $\perp$      | $\perp$  | _            | $\sqcup$      | _        | $\perp$   | 4      | ļ          | 112        | $\vdash \vdash$ | _        | $\dashv$ | _        |          |           | $\dashv$  | $\dashv$  |          |
|            | 13       | 1              | $\sqcup$            | 1.                 | $\perp$    | $\dashv$  | _             | $\perp$      | _                                       | 4:::  | _        | 6   |          | $\perp$  | 4            | 4_       | 1            | $\sqcup$      | _        |   | 4      |            | 113        | $\sqcup$        | _        |          | _        | _        | $\dashv$  | $\dashv$  |           |          |
|            | 14       | 1              | $\sqcup$            |                    | _          | _         |               |              | _                                       | 4:::  | <b>L</b> | 6   | 4        | _        | $\perp$      | $\bot$   | 1_           | $\sqcup$      | -        |   | -      |            | 114        | Н               | $\dashv$ |          | $\dashv$ | _        | $\dashv$  | $\dashv$  |           |          |
| L          | 15       |                | Ш                   | $\perp$            | _          |           |               |              | $\perp$                                 | _     | <u></u>  |     | 5        | _        | _            | <b>-</b> |              | ₩             |          | $\perp$   | 4      |            | 115        |                 | _        | _        | $\dashv$ | _        | $\dashv$  | $\dashv$  | $\dashv$  | _        |
| <u></u>    | 16       | _              | $\sqcup$            | $\perp \downarrow$ | $\perp$    | _         |               | .            | $\perp$                                 | 4     | <u></u>  | - 6 | 6        | _        | $\perp$      | $\perp$  | _            | $\sqcup$      | _        | $\perp$   | -      | <u> </u>   | 116        | $\vdash \vdash$ | $\sqcup$ | $\dashv$ | $\dashv$ | -        |           | $\dashv$  | $\dashv$  | _        |
|            | 17       | <u> </u>       | Ш                   | _                  | _          | _         |               | 4            | _                                       | 4     | <u> </u> | 6   |          | _        | $\perp$      | 4        | ↓_           | $\sqcup$      | -        | -   | 4      | <u> </u>   | 117        | Н               |          |          | $\dashv$ | -        | -         | -+        | $\dashv$  |          |
|            | 18       |                | $\sqcup \downarrow$ | $\dashv$           | 4          | _         | $\rightarrow$ | $\dashv$     | _                                       | 4     | _        | 16  | 8        | -        | +            | +        | ╀            | ${ightarrow}$ |          | -   | 4      | <u> </u>   | 118        | -               | $\vdash$ | $\dashv$ |          | $\dashv$ | $\dashv$  | +         | $\dashv$  | _        |
|            | 19       |                | $\sqcup$            | _                  | 4          | _         | _             |              | 4                                       | 4     | <u> </u> |     | 9        |          | -            | +        | $\vdash$     | $\sqcup$      | $\dashv$ | 4-  | -      | <u> </u>   | 119        | Н               | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  |           |          |
| <u> </u>   | 20       |                | Ш                   | _                  | 4          | _         |               |              | -                                       | 4     | <u> </u> |     | 0        | _        | -            | -        | ┼            | H             |          | -   | -      | <u> </u>   | 120        | Н               |          | -        |          | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  | _        |
|            | 21       | _              | $\sqcup$            | 4                  | 4          | _         | -             | +            | -                                       | -     | -        |     | 1        | -        | +            |          | +            | Н             | -        | +   |        | <u> </u>   | 121        | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  |          |
|            | 22       | <u> </u>       | <del></del>         | +                  | $\dashv$   | -         |               | _            |   |       | <u> </u> |     | 2        | _        |              | +        | +            |               | +        | - -   |        |            | 122<br>123 | Н               |          |          |          |          | $\dashv$  | $\dashv$  |           | _        |
|            | 23       | <del> </del> - | -                   | +                  |            | $\dashv$  |               |              | _                                       | -1::  | -        | +-  | 3        | -        | +            | +        | +            | Н             |          | -   | -      | <u> </u>   | 123        | H               | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  |          |
|            | 24       |                | ₩                   | +                  | $\dashv$   |           | $\dashv$      |              | +                                       | -     | -        | +   | 4<br>5   |          | +            | +        | ╁            | $\vdash$      |          | +   | -      | $\vdash$   | 125        | -               |          | -        |          | $\dashv$ | $\dashv$  | -         | $\dashv$  |          |
| <u> </u>   | 25       | -              |                     | -+                 | $\dashv$   |           | $\dashv$      | $\dashv$     | +                                       |       | $\vdash$ |     | 6        |          | +            | +        | +            | Н             |          |   | -      | $\vdash$   | 126        | -               |          | _        |          | $\dashv$ | $\dashv$  | $\dashv$  |           |          |
|            | 26<br>27 | ├              | -                   | +                  | +          |           | $\dashv$      | -            | +                                       | -     |          |     | 7        |          | +            | ╁        | +-           | Н             |          | +   | -      | <b> </b> - | 127        | Н               | $\dashv$ |          | -        | $\dashv$ | $\dashv$  | -         | $\dashv$  |          |
|            | 28       | ┝              | -                   | +                  | -          |           | $\dashv$      | -+           | $\dashv$                                | +     | -        |     | 8        | -        | +            | +        | ╁╌           | H             |          |   | -      | <u> </u>   | 128        | -               | H        | $\neg$   | -        | _        | -         | _         | $\dashv$  |          |
| <u> </u>   | 29       | ⊢              | $\vdash$            |                    | +          |           | $\dashv$      | <del>-</del> | +                                       | -     | -        | +   | 9        | -        | +            | +        | +            | $\vdash$      |          | +   | -      |            | 129        | -               | $\dashv$ |          | _        | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$  | _        |
|            | 30       | ├              | ╁┼                  | 1                  |            | $\dashv$  |               |              | +                                       | -     | -        |     | 0        |          | +            | +        |              | H             | $\dashv$ | +   | -      |            | 130        | $\vdash$        | $\vdash$ | $\neg$   |          | 一        | $\neg$    | $\exists$ | 一         | _        |
| <u> </u>   | 31       | <del> </del>   | $\vdash$            | +                  | +          | $\dashv$  |               | +            |   | -     | -        |     | 1        | +        | +            | +        | <del> </del> | ╆╌┼           | $\dashv$ | $\top$  | 1      | <b>—</b>   | 131        |                 |          | $\neg$   |          |          | $\dashv$  | $\neg$    | $\dashv$  |          |
| <u> </u>   | 32       | }              | <del>  </del> -     | $\dashv$           |            | -         | $\dashv$      | _            | 十                                       | -     | $\vdash$ |     | 2        | 一十       | -            | 十        | -            | $\Box$        | $\dashv$ | _   | 7:::   |            | 132        |                 |          |          |          | ┪        | $\dashv$  | $\neg$    | $\neg$    |          |
|            | 33       |                | $\vdash$            | 十                  | 7          | $\neg$    |               | _            | 1                                       | -     |          |     | 3        | 十        | _            | _        | T            | П             |          | $\top$  | 1      |            | 133        |                 |          |          |          |          |           | $\Box$    | $\neg$    |          |
| -          | 34       | t              | +                   | $\dashv$           | 7          |           | $\vdash$      | $\dashv$     | +                                       | 7::   |          |     | 4        | $\top$   | $\dashv$     | $\top$   | 1            | $\vdash$      | $\top$   | +   | 7      |            | 134        | П               | $\Box$   |          |          |          | $\Box$    | $\dashv$  |           | ,        |
|            | 35       | T              | +                   | $\top$             | $\dashv$   |           | $\Box$        | +            | _                                       | 7     |          | 1 8 | 5        | $\top$   | 1            | $\top$   | $\top$       | П             | $\neg$   | _   | 7      |            | 135        |                 | T        |          |          |          | $\Box$    | $\Box$    |           |          |
|            | 36       | T              |                     | $\neg \uparrow$    | 7          |           |               | _            | 十                                       | 7     |          | 1 8 | 6        | $\neg$   | 十            | _        | 1            | П             | 十        | $\top$  | 7      |            | 136        |                 |          |          |          |          | $\Box$    |           |           |          |
|            | 37       |                | $\Box$              | $\top$             | 7          |           |               | _            | $\neg$                                  | 7     |          | 1 8 | 7        |          | $\top$       | $\top$   | 1            | П             | $\neg$   | 1   | 7      |            | 137        |                 |          |          |          |          |           |           |           |          |
|            | 38       | $\vdash$       | $\vdash$            |                    | 7          |           |               |              | 十                                       | 1     |          |     | 8        | o        | 十            | $\top$   | 1            | П             |          |   |        |            | 138        |                 |          |          |          |          |           |           |           |          |
|            | 39       |                | $\Box$              | 寸                  | 7          |           | $\Box$        |              | $\Box$                                  |       |          | 1   | 9        |          |              |          | $\prod$      |               |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |        |            | 139        |                 |          |          |          |          |           | $\Box$    |           | Ĺ        |
|            | 40       |                |                     | T                  |            |           |               |              |   | 7     |          | 9   | 10       |          | $\perp$      |          |              |               |          |   |        |            | 140        |                 |          |          |          |          |           | $\Box$    |           |          |
|            | 41       |                |                     | T                  |            |           |               |              |   |       |          |     | 11       |          |              |          |              |               |          | $\bot$  |        | L          | 141        | L               | Ш        |          |          |          | Ш         | Ш         | ]         | _        |
|            | 42       | L              |                     |                    |            |           |               |              | $oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |       |          |     | 2        |          | $oxed{\Box}$ |          |              | Ш             |          |   | _      |            | 142        |                 | Ш        |          |          |          | $\sqcup$  | Щ.        |           | $\vdash$ |
|            | 43       |                |                     | $oxed{\int}$       | $\Box$     |           |               |              |   | _     | L        |     | മ        |          |              |          | 1            | $\square$     |          |   | _      |            | 143        | L               |          |          |          | $\Box$   | $\sqcup$  | Ш         |           |          |
|            | 44       | L              |                     |                    | [          |           |               |              | ⅃.                                      | _     | L        |     | 14       | $\Box$   |              | _        | $\perp$      |               |          | $\perp$   | _      | <u> </u>   | 144        |                 | Ш        |          |          |          | $\sqcup$  | $\sqcup$  |           | $\vdash$ |
|            | 45       |                |                     |                    | $\perp$    |           |               |              | $\perp \Gamma$                          | _     | -        |     | 15       |          | $\perp$      | $\perp$  | 1_           | $\sqcup$      | $\perp$  | $\perp$   | _      |            | 145        |                 |          |          |          |          | Щ         | <u> </u>  |           | $\vdash$ |
|            | 46       |                | $\sqcup$            | $\perp$            | $\Box$     |           | $\Box$        |              |   |       |          |     | 6        |          | $\perp$      | 4        | 1            | $\sqcup$      | _        | $\perp$   | 4      |            | 146        | $oxed{oxed}$    | Ш        |          |          | Ш        | <b></b>   | Щ         |           | <u> </u> |
|            | 47       | L              |                     |                    | $\sqcup$   |           |               |              |   | _     | ::L      |     | 17       |          |              | 1        | 4_           | $\sqcup$      | 4        | _ _   | _      |            | 147        |                 | Ш        |          |          |          | ot        | Ш         |           | $\vdash$ |
| <u> </u>   | 48       | _              | Ш                   | $\perp$            | _          |           | Ш             |              | $\perp$                                 | _     | <u> </u> |     | 8        | $\sqcup$ | $\bot$       | $\perp$  | 4_           | $\sqcup$      | $\perp$  | 4   | _ !!!  | <u> </u>   | 148        | <b>-</b>        | Ш        | _        |          |          |           | Ш         |           | <u> </u> |
|            | 49       | _              | $\sqcup$            | _                  | _          |           | Щ             |              | $\perp$                                 | _     | <u> </u> | 15  | 9        |          | $\perp$      | -        | $\bot$       | $\vdash$      | $\perp$  |   |        | <b>—</b>   | 149        | $\vdash$        |          |          | <u> </u> | $\vdash$ | <b>├</b>  |           |           | <u> </u> |
| L          | 50       |                |                     |                    |            |           |               |              | $\perp$                                 |       | ::L      | 1   | 00       | LL       |              |          |              |               |          | _L  | ::::   |            | 150        | $\perp$         | Ш        |          |          |          |           | لے        |           |          |